

MISSOURI DEPARTMENT OF NATURAL RESOURCES
8460 Watson Road St. Louis, Missouri 63119 (314) 849-1313

3.600 St. Louis County
West Lake Landfill, Inc. Sanitary Landfill

May 25, 1978

Mr. William Canney
West Lake Landfill, Inc.,
Route 1, Box 206
Bridgeton, MO 63042

Dear Mr. Canney:

A reinspection was made of the condition and operation of the West Lake Landfill, Inc., Sanitary Landfill on May 12, 1978. The recommendations contained in this report are based on the findings made at the time of the investigation. I trust that you will direct your attention to these findings and that you will proceed to carry out the recommendations presented.

FINDINGS:

1. Landfilling operations were progressing very well on the day of the inspection. Proper techniques of spreading, compacting, and covering the solid waste with soil were being practiced.
2. The leachate collection well contained 12 to 15 feet of leachate.
3. Some of the final side slopes on the west side of the landfill exceeded 33 1/3 percent.

DISCUSSION:

The leachate collection well had recharged from the last pumping and requires pumping again. After it is pumped, the recharge should be monitored and timed to estimate the leachate production.

All final side slopes should be contoured to no more than 33 1/3 percent grades and seeded to prevent erosion.

RECOMMENDATIONS:

1. Pump the leachate collection well and time the recharge.
2. Regrade and seed final side slopes as they are finished.

Should you have any questions regarding this investigation, please contact Howard Winburn of the St. Louis Regional Office.

Site: West Lake LF
ID: MBD02990932
Break: 11.2
Other: cu2
Date: 5-25-78

RECEIVED

MAY 1 1978

BUREAU OF
SOLID WASTE MANAGEMENT

Joseph P. Teasdale Governor
Carolyn Ashford Director
St. Louis Regional Office

40249177



SUPERFUND RECORDS

DNR 0099

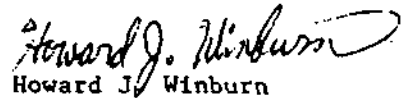
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3.600 St. Louis County

APPROVED



Earl F. Holtgraewe, P.E.
Regional Administrator
St. Louis Regional Office
Department of Natural Resources

SUBMITTED BY



Howard J. Winburn
Environmental Engineer II
St. Louis Regional Office
Department of Natural Resources

EFH/HW/lb

CC: Central Office, Solid Waste Program
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9929 Manchester Road
Warson Woods, MO 63122

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Department of Community Health and Medical Care
801 S. Brentwood Blvd.
Clayton, MO 63105

Reinspection

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY

SANITARY LANDFILL SURVEILLANCE RECORD

recorded

Date: 5-12-78 Days/Week Open: 5 1/2
Name of Sanitary Landfill: West Lake Landfill, Inc. Sanitary Landfill
Permit No: 118903 County: St. Louis
Owner: West Lake Landfill, Inc. Operator: Vernon Fehr
Address: Route 1, Box 206 Address: Route 1, Box 206
Bridgeton, Missouri 63042 Bridgeton, Missouri 63042

I. Special Conditions and Approved Modifications

A. Are there any special conditions or approved modifications of the satisfactory compliance subsections of the rules and regulations? (e.g. impermeable barrier, limited excavation, exceptions to daily cover requirements)

☒ Yes ☐ No

B. Is the sanitary landfill operation in compliance with the special conditions or approved modifications? (If "No," describe violations under "REMARKS.")

☒ Yes ☐ No

II. Check Types of Waste Accepted

	INDICATED ON PERMIT APPLICATION	REPORTED BY OPERATOR	AS OBSERVED
Municipal solid waste	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Bulky waste			
Dead animals			
Incinerator residue			
Demolition and construction waste			
Brush and untreated wood waste			
Septic tank pumpings			
Wastewater treatment plant sludges			
OTHER SLUDGES (SPECIFY)			
LIQUIDS (SPECIFY)			
INDUSTRIAL PROCESS WASTE (SPECIFY)			
HAZARDOUS WASTES (SPECIFY)			
OTHER WASTES (SPECIFY)			

III. Remaining Life of Landfill

A. Estimated average volume of compacted solid waste received.
5300 (_____, yards/day, _____)

B. Estimated volume of remaining landfill covered by approved engineering plans.
120 acre feet

IV. Satisfactory Compliance Subsections Regulations 80-3.010

Check all subsections: SAT — Satisfactory; UNS — Unsatisfactory. (If necessary describe "UNS" violations under "Remarks.")

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(2) SOLID WASTE ACCEPTED			
(2)(C)1	Routine Sanitary landfill techniques of spreading and compacting solid waste and placing cover material daily.	✓	
(2)(C)2	Bulky solid waste crushed on solid ground and pushed onto working face near bottom of the cell.		
(2)(C)3	Small dead animals covered immediately with soil or solid waste. Large dead animals placed in pit and covered with four feet compacted soil.		
(2)(C)4	Disposal of dewatered sludges on working face along with municipal solid waste.		
(2)(C)5	Incinerator and air pollution control residues prevented from becoming airborne.		
(3) SOLID WASTE EXCLUDED			
(3)(C)1	No unpermitted waste accepted.	✓	
(3)(C)2	Sign posted at entrance listing excluded wastes.	✓	
(4) SITE SELECTION			
(4)(C)1	Site accessible in all weather conditions. Temporary roads provided for delivery to working face.	✓	
(4)(C)2	Public roads or access roads to the site above flood elevation.	✓	
(6) WATER QUALITY			
(6)(C)1	Surface water courses and runoff properly diverted from the landfill. Sanitary landfill construction and grading to promote rapid surface water runoff without excessive erosion.	✓	
(6)(C)2	Leachate collection and treatment systems utilized where necessary to protect ground and surface water resources.	✓	
(6)(C)3	No groundwater in contact with solid waste.	✓	
(7) AIR QUALITY			
(7)(C)	No open burning without written permission of the proper air pollution agency and the Division.	✓	
(8) GAS CONTROL			
(8)(C)1	Decomposition gases adequately vented to prevent danger to occupants of adjacent property.		
(8)(C)2	Decomposition gases vented in a manner to prohibit accumulation in explosive or toxic concentrations.		
(9) VECTORS			
(9)(C)	Vector control programs implemented when necessary to prevent or rectify vector problems.		
(10) AESTHETICS			
(10)(C)1	Litter control devices utilized near working face and elsewhere as needed. Litter collected from fences, and the ground surface, and incorporated into the daily cell at the end of each day or containerized.		
(10)(C)2	Wastes easily moved by wind covered as necessary to prevent their becoming airborne and scattered.	✓	

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(10) AESTHETICS (continued)			
(10)(C)3	On-site vegetation and natural windbreaks being utilized to improve appearance and operation of the sanitary landfill.		
(10)(C)4	Salvaged materials removed daily or stored in aesthetically acceptable containers or enclosures.		
(11) COVER MATERIAL			
(11)(C)1	Daily cover applied regardless of weather in not less than a six inch layer. Cover material available in all weather conditions.	✓	
(11)(C)2	Intermediate cover applied to all areas idle for more than 60 days in a layer not less than one foot after compaction.	✓	
(11)(C)3	Final cover applied on each area as completed in a layer not less than two feet after compaction.	✓	
(12) COMPACTION			
(12)(C)1	Adequate equipment on-site, operated daily.	✓	
(12)(C)1A	Solid waste spread in layers not to exceed two feet and confined to smallest practical area.	✓	
(12)(C)1B	Wastes compacted to smallest practical volume.	✓	
(12)(C)1C	Cover material compacted as much as practical.	✓	
(12)(C)2	Preventive maintenance performed.	✓	
(12)(C)3	Daily task operating manual provided.		
(13) SAFETY			
(13)(C)1	Fire extinguishers provided on all equipment.	✓	
(13)(C)2	Provisions for extinguishing fires in waste, equipment and structures.	✓	
(13)(C)3	Communication equipment available.	✓	
(13)(C)4	Scavenging prohibited.	✓	
(13)(C)5	Controlled access to site by established roadways and limited to hours when operating personnel are on duty.	✓	
(13)(C)6	Traffic controlled and directed to appropriate disposing points.	✓	
(13)(C)7	Dust controlled for safety purposes and to prevent nuisances.		
(14) RECORDS			
(14)(C)1A	Records of major problems and complaints.		
(14)(C)1B	Monitoring record maintained. a. leachate sampling and analyses, b. gas sampling and analyses, c. ground and surface water analyses.		
(14)(C)1C	Records of vector control efforts.		
(14)(C)1D	Records of dust and litter control efforts.		
(14)(C)1E	Records of quantity of waste handled.	✓	
(14)(C)1F	Records of description, sources, and volume of special wastes listed in Subsection (3)(A).		

V. Operation Proceeding in Accordance With Approved Engineer Plans? (If "No," describe violations under "Remarks.")

✓ Yes _____ No

REMARKS There was 12 to 15 ft. of leachate in the collection well. The well should be pumped again and its recovery monitored. Some of the final side slopes were too steep.

(Attach additional sheets as necessary.)

BY Howard J. Winburn
SIGNATURE OF INVESTIGATOR

Reinspection

MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
DEMOLITION LANDFILL SURVEILLANCE RECORD

recorded

Date: 5-12-78 Days/Week Open: 5 1/2
Name of Demolition Landfill: West Lake Landfill, Inc. Demolition Landfill
Permit No: 218 903 County: St. Louis
Owner: West Lake Landfill, Inc. Operator: Vernon Fehr
Address: Route 1, Box 206 Address: Route 1, Box 206
Bridgeton, Missouri 63042 Bridgeton, Missouri 63042

I. Special Conditions and Approved Modifications

A. Are there any special conditions or approved modifications of the satisfactory compliance subsections of the rules and regulations? (e.g. impermeable barrier, limited excavation, exceptions to weekly cover requirements)
✓ Yes No

B. Is the demolition landfill operation in compliance with the special conditions or approved modifications? (If "No," describe violations under "REMARKS.")
✓ Yes No

II. Check Types of Waste Accepted

	INDICATED ON PERMIT APPLICATION	REPORTED BY OPERATOR	AS OBSERVED
Demolition and construction waste	<u>✓</u>		<u>✓</u>
Brush and untreated wood waste	<u>✓</u>		
Tires			
Inert Plastics	<u>✓</u>		
OTHER WASTES (SPECIFY)			

III. Remaining Life of Landfill

A. Estimated average volume of compacted solid waste received.
1000 ~~8000~~ yards/day, ~~1000~~

B. Estimated volume of remaining landfill covered by approved engineering plans.
72 acre feet

IV. Satisfactory Compliance Subsections Regulations 80-4.010

Check all sections: SAT — Satisfactory; UNS — Unsatisfactory. (If necessary, describe "UNS" violations under "Remarks.")

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(2) SOLID WASTE ACCEPTED			
(2)(C)1	Routine sanitary landfill techniques of spreading and compacting solid waste shall be used as much as practicable to dispose of solid waste in a demolition landfill.	✓	
(2)(C)2	A list of wastes to be accepted shall be displayed prominently at the site entrance.	✓	
(3) SOLID WASTE EXCLUDED			
(3)(C)1	A responsible supervisor shall be present at the disposal area at all times when the area is open to receive waste.	✓	
(3)(C)2	Excluded wastes deposited removed to an approved disposal site.		
(4) SITE SELECTION			
(4)(C)	Site accessible by all-weather roads.	✓	
(6) WATER QUALITY			
(6)(C)1	Surface water courses and runoff satisfactorily diverted from the landfill. Demolition landfill construction and grading to promote rapid surface water runoff without excessive erosion.	✓	
(6)(C)2	Decomposable solid wastes deposited above predicted maximum water table.	✓	
(7) AIR QUALITY			
(7)(C)	No open burning without written permission from the agency having jurisdiction.	✓	
GAS CONTROL			
(8)(C)1	Decomposition gases adequately vented to prevent danger to occupants of adjacent property.		
(8)(C)2	Gases vented to prohibit explosive or toxic accumulations.		
(9) VECTORS			
(9)(C)	Vector control programs implemented when necessary.		
(10) AESTHETICS			
(10)(C)1	Litter collected and compacted into cell be utilized daily.		
(10)(C)2	Wastes easily moved by wind covered as necessary.	✓	
(10)(C)3	On-site vegetation and natural windbreaks being utilized for litter control and aesthetic appearance.		

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(10) AESTHETICS (continued)			
(10)(C)4	Salvaged materials removed daily or stored in aesthetically acceptable manner.	✓	
(11) COVER MATERIAL			
(11)(C)1	Twelve (12) inches compacted soil cover material applied at least once every seven calendar days.	✓	
(11)(C)2	Final cover of at least two (2) feet compacted soil applied on all completed areas.	✓	
(12) COMPACTION			
(12)(C)1A	Solid waste spread in layers not to exceed two (2) feet as much as practical.	✓	
(12)(C)1B	Solid waste compacted to smallest practical volume.	✓	
(12)(C)1C	Cover material compacted as much as practical.	✓	
(12)(C)2	Equipment available and operated to spread and compact the solid waste as received or at least when the accumulated waste reaches 200 cubic yards.	✓	
(12)(C)3	No solid waste disposed of in water where the water interfered with spreading and compacting or where the water is causing a mosquito problem.	✓	
(13) SAFETY			
(13)(C)1	Fire extinguishers provided on all equipment.	✓	
(13)(C)2	Provisions for extinguishing fires in waste, equipment or structures.	✓	
(13)(C)3	Scavenging prohibited.	✓	
(13)(C)4	Controlled access limited to operating hours.	✓	
(13)(C)5	Traffic control signs provided.	✓	
(13)(C)6	Dust control adequate.		
(14) RECORDS			
(14)(C)1A	Records of complaints and major problems.		
(14)(C)1B	Records of dates of cover material application.		
(14)(C)1C	Records of vector control efforts.		
(14)(C)1D	Records of dust and litter control efforts.		
(14)(C)1E	Records of quantity of waste received.	✓	
(14)(C)2	Records of location of general types of wastes and depth of fill.		

V. Operation Proceeding in Accordance With Approved Engineer Plans? (If "No," describe violations under "Remarks.")

✓ Yes _____ No

REMARKS _____

(Attach additional sheets as necessary.)

BY Howard J. Winburn
 SIGNATURE OF INVESTIGATOR